



Mathematics Specific Areas of the Early Years Framework

By the end of the Early Years Foundation Stage the children in Reception are expected to display the following skills confidently and independently, in order to best prepare them for their next stage of learning:

- **Mathematics:** Children count reliably with numbers from one to 20, place them in order and say which number is one more or one less than a given number. Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer. They solve problems, including doubling, halving and sharing.
- **Shape, Space and Measure:** Children use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems. They recognise, create and describe patterns. They explore characteristics of everyday objects and shapes and use mathematical language to describe them.

Aims of the Mathematics National Curriculum

The national curriculum for mathematics aims to ensure that all pupils:

- become fluent in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Spoken Language

The national curriculum for mathematics reflects the importance of spoken language in pupils' development across the whole curriculum – cognitively, socially and linguistically. The quality and variety of language that pupils hear and speak are key factors in developing their mathematical vocabulary and



presenting a mathematical justification, argument or proof. They must be assisted in making their thinking clear to themselves as well as others and teachers should ensure that pupils build secure foundations by using discussion to probe and remedy their misconceptions.

Early Years Mathematics

In the EYFS Mathematics is explored through play. The children are introduced to new concepts and ideas through adult guided or whole class teaching and are then given the opportunity to independently explore these both indoors and out. Practical resources are at the heart of the learning and children will be familiarised with many of the models and resources needed for their future maths work, e.g. part-whole model.

We focus largely on understanding of number and want the children to understand the link between numbers and quantities, how quantities are composed of smaller parts, how numbers relate to one another, how quantities change when you add or take away. We predominately focus on developing a really strong sense of numbers to 10, but children will be able to count to 20 and beyond and develop a sense of what those numbers mean.

Key Stage 1 Mathematics

The principal focus of mathematics teaching in Key Stage 1 is to ensure that pupils develop confidence and mental fluency with whole numbers, counting and place value. This should involve working with numerals, words and the four operations, including with practical resources.

At this stage, pupils should develop their ability to recognise, describe, draw, compare and sort different shapes and use the related vocabulary. Teaching should also involve using a range of measures to describe and compare different quantities such as length, mass, capacity/volume, time and money.

By the end of Year 2, pupils should know the number bonds to 20 and be precise in using and understanding place value. An emphasis on practice at this early stage will aid fluency.

Pupils should read and spell mathematical vocabulary, at a level consistent with their increasing word reading and spelling knowledge at Key Stage 1.



Lower Key Stage 2 Mathematics

The principal focus of mathematics teaching in lower Key Stage 2 is to ensure that pupils become increasingly fluent with whole numbers and the four operations, including number facts and the concept of place value. This should ensure that pupils develop efficient written and mental methods and perform calculations accurately with increasingly large whole numbers.

At this stage, pupils should develop their ability to solve a range of problems, including with simple fractions and decimal place value. Teaching should also ensure that pupils draw with increasing accuracy and develop mathematical reasoning so they can analyse shapes and their properties, and confidently describe the relationships between them. It should ensure that they can use measuring instruments with accuracy and make connections between measure and number.

By the end of Year 4, pupils should have memorised their multiplication tables up to and including the 12 multiplication table and show precision and fluency in their work.

Pupils should read and spell mathematical vocabulary correctly and confidently, using their growing word reading knowledge and their knowledge of spelling.

Upper Key Stage 2 Mathematics

The principal focus of mathematics teaching in upper Key Stage 2 is to ensure that pupils extend their understanding of the number system and place value to include larger integers. This should develop the connections that pupils make between multiplication and division with fractions, decimals, percentages and ratio.

At this stage, pupils should develop their ability to solve a wider range of problems, including increasingly complex properties of numbers and arithmetic, and problems demanding efficient written and mental methods of calculation. With this foundation in arithmetic, pupils are introduced to the language of algebra as a means for solving a variety of problems.

Teaching in geometry and measures should consolidate and extend knowledge developed in number. Teaching should also ensure that pupils classify shapes with increasingly complex geometric properties and that they learn the vocabulary they need to describe them.



By the end of Year 6, pupils should be fluent in written methods for all 4 operations, including long multiplication and division, and in working with fractions, decimals and percentages. Pupils should read, spell and pronounce mathematical vocabulary correctly



Curriculum Overview			
	Autumn	Spring	Summer
Reception	Place Value- Numbers to 5 Addition and Subtraction- Sorting Place Value- Comparing groups Addition and Subtraction- Change within 5 Measurement – Time	Addition and Subtraction- Numbers to 5 Place Value- Numbers to 10 Addition and Subtraction – Numbers to 10 Geometry- Shape and space	Geometry – Exploring patterns Addition and Subtraction – Count on and back Place Value – Numbers to 20 Multiplication and Division – Numerical patterns Measurement- Measure
Year 1	<ul style="list-style-type: none"> ➤ Number: Number and place value: <ul style="list-style-type: none"> • Numbers to 10 • Part-whole within 10 • Addition and subtraction within 10 • Numbers to 20 ➤ Geometry: <ul style="list-style-type: none"> • 2D and 3D shape 	<ul style="list-style-type: none"> ➤ Number: Addition and subtraction: <ul style="list-style-type: none"> • Addition within 20 • Subtraction within 20 ➤ Number and place value: <ul style="list-style-type: none"> • Numbers to 50 ➤ Measurement: <ul style="list-style-type: none"> • Length and height • Weight and volume 	<ul style="list-style-type: none"> ➤ Number: Multiplication and division ➤ Number: Fractions: <ul style="list-style-type: none"> • Halves and quarters ➤ Geometry: <ul style="list-style-type: none"> • Position and movement ➤ Number and place value: <ul style="list-style-type: none"> • Numbers to 100 ➤ Measurement: <ul style="list-style-type: none"> • Time • Money
Year 2	<ul style="list-style-type: none"> ➤ Number: Number and place value: <ul style="list-style-type: none"> • Numbers to 100 ➤ Number: Addition and subtraction ➤ Measurement: <ul style="list-style-type: none"> • Money ➤ Number: Multiplication and division 	<ul style="list-style-type: none"> ➤ Number: Multiplication and division ➤ Statistics ➤ Measurement: <ul style="list-style-type: none"> • Length and height ➤ Geometry: <ul style="list-style-type: none"> • Properties of shape ➤ Number: Fractions 	<ul style="list-style-type: none"> ➤ Geometry: <ul style="list-style-type: none"> • Position and movement ➤ Number: Addition and subtraction: <ul style="list-style-type: none"> • Problem solving and efficient methods ➤ Measurement: <ul style="list-style-type: none"> • Time • Weight, volume and temperature



<p>Year 3</p>	<ul style="list-style-type: none"> ➤ Number: Number and place value: <ul style="list-style-type: none"> • Place value within 1000 ➤ Number: Addition and subtraction ➤ Number: Multiplication and division 	<ul style="list-style-type: none"> ➤ Number: Multiplication and division ➤ Measurement: <ul style="list-style-type: none"> • Money • Length ➤ Statistics ➤ Number: Fractions 	<ul style="list-style-type: none"> ➤ Number: Fractions ➤ Measurement: <ul style="list-style-type: none"> • Time • Mass • Capacity ➤ Geometry: <ul style="list-style-type: none"> • Angles and properties of shape
<p>Year 4</p>	<ul style="list-style-type: none"> ➤ Number: Number and place value: <ul style="list-style-type: none"> • 4-digit numbers ➤ Number: Addition and subtraction ➤ Measurement: <ul style="list-style-type: none"> • Perimeter ➤ Number: Multiplication and division 	<ul style="list-style-type: none"> ➤ Number: Multiplication and division ➤ Number: Fractions (including decimals) 	<ul style="list-style-type: none"> ➤ Number: Fractions (including decimals) ➤ Measurement: <ul style="list-style-type: none"> • Time • Money ➤ Statistics ➤ Geometry: <ul style="list-style-type: none"> • Angles and 2D shape • Position and direction
<p>Year 5</p>	<ul style="list-style-type: none"> ➤ Number: Number and place value: <ul style="list-style-type: none"> • Place value within 100,000 • Place value within 1,000,000 ➤ Number: Addition and subtraction ➤ Statistics: <ul style="list-style-type: none"> • Graphs and tables ➤ Number: Multiplication and division ➤ Measurement: <ul style="list-style-type: none"> • Area and perimeter 	<ul style="list-style-type: none"> ➤ Number: Multiplication and division ➤ Number: Fractions (including decimals and percentages) 	<ul style="list-style-type: none"> ➤ Number: Fractions (including decimals and percentages) ➤ Geometry: <ul style="list-style-type: none"> • Properties of shape • Position and direction ➤ Measurement: <ul style="list-style-type: none"> • Converting units • Volume and capacity



Year 6	<ul style="list-style-type: none">➤ Number: Number and place value:<ul style="list-style-type: none">• Place value within 10,000,000➤ Number: Addition, subtraction, multiplication and division➤ Number: Fractions➤ Geometry:<ul style="list-style-type: none">• Position and direction	<ul style="list-style-type: none">➤ Number: Fractions (including decimals and percentages)➤ Algebra➤ Measurement:<ul style="list-style-type: none">• Imperial and metric measures• Perimeter, area and volume	<ul style="list-style-type: none">➤ Geometry:<ul style="list-style-type: none">• Properties of shape➤ Number: Number and place value<ul style="list-style-type: none">• Problem-solving➤ Statistics
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Mathematics Progression

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number and place value	Counting to 5	Numbers to 10	Counting and representing numbers to 100	Counting n 100s	Numbers to 1000	Numbers to 10,000	Reading, writing, ordering and comparing numbers to 10,000,000
	Showing interest/curiosity in number and offer comments and asking questions	Counting, identifying and representing numbers	Tens and ones	Representing numbers up to 1000	Rounding to the nearest 10, 100.	Rounding to the nearest 10, 100 and 1000	Knowing the value of digits in a number up to 10,000,000
	Comparing groups within 5 (identical and non-identical objects)	Writing numbers	Representing numbers on a place value grid	Place value within 1000 – 100s, 10s and 1s	Counting in 1000s	The number line to 100,000	Number line to 10,000,000
	Counting to 10 and counting to numbers within 10	Counting forwards and backwards	Comparing numbers	Number line to 1000 - 1, 10 and 100 more and less	Representing 4-digit numbers - 1000s, 100s, 10s and 1s	Comparing and ordering numbers to 100,000	Rounding numbers to 10,000,000
	Placing numbers in order	One more One less	Ordering numbers	Comparing and ordering numbers to 1000	Number line to 10,000	Rounding numbers within 100,000	Negative numbers and calculating intervals across zero
	Comparing numbers to 10	Comparing objects and numbers	Counting in 2s ,5s and 10s	Counting in 50s	Roman numerals to 100	Roman numerals to 10,000	
	Counting to 20	Ordering objects and numbers 1st, 2nd, 3rd 10	Counting in 3s		Finding 1000 more and less	100,000s, 10,000s, 1000s, 100s, 10s and 1s	
	Placing numbers in order	Introduction to the number line			Comparing 4-digit numbers	Number line to 1,000,000	
		Numbers to 20			Ordering numbers to 10,000	Comparing and ordering numbers to 1,000,000	
		Identifying, counting, representing and writing numbers to 20			Rounding to nearest 1000	Rounding numbers to 1,000,000	
	Tens and ones			Problem solving – rounding			
	Counting one more /less			Counting in 25s			
				Negative numbers			



	<p>Comparing numbers and objects</p> <p>Ordering numbers and objects</p> <p>Numbers to 50</p> <p>Tens and ones to 50</p> <p>Representing numbers to 50</p> <p>Comparing numbers and objects to 50</p> <p>Ordering numbers and objects to 50</p> <p>Counting in 2s and 5s</p> <p>Solving addition and subtraction one step word problems</p> <p>Using signs $<$ $>$ $=$</p> <p>Numbers to 100</p> <p>Counting to 100</p> <p>Exploring number patterns</p> <p>Partitioning numbers</p> <p>Comparing numbers</p>				<p>Counting in 10s, 100s, 1000s, and 10,000s</p> <p>Number sequences</p>	
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	Ordering numbers					
	Bonds to 100					

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number: Addition and subtraction	Sorting into two groups – exploring everyday objects	Part whole within 10 Using related facts	Related facts – addition/ subtraction Using number facts to check calculations	Adding and subtracting 100s Adding and subtracting 3-digit numbers and 1s and 10s	Adding and subtracting 1s, 10s, 100s and 1000s Adding two 4-digit numbers	Adding whole numbers with more than 4 digits Subtraction - whole numbers with more than 4 digits	Problem solving with addition and subtraction using written methods (multi step)
	Change within 5 – one more / one less	Reading, writing and interpreting mathematical statements + - =	Comparing number sentences	Adding and subtracting 3-digit numbers and 2-digit numbers	Subtracting two 4-digit numbers	Using rounding to estimate and check answers	
	Number bonds to 5 – Introduction to the part whole model (Pre-requisite – count on and back to find an answer and add and sub single digit numbers)	Representing and using number bonds Finding, comparing and making number bonds	Making number bonds to 10 Adding and subtracting Ones	Addition and subtraction patterns (adding 1, 10 and 100s)	Equivalent difference – subtraction Estimating answers - addition and subtraction	Mental addition and subtraction – partitioning / rounding and adjusting / counting on	
	Addition to 10 – combining two groups to find a whole	Addition within 10 Finding the whole - adding together	Finding 10 more / less Adding and subtracting tens	Adding two 3-digit numbers Subtracting a 3 digit from a 3 digit	Checking strategies – inverse operations Problem solving - addition and subtraction	Using inverse operations Problem-solving - addition and subtraction	
	Number bonds to 10	Finding the whole - adding more on Finding a part	Adding / subtracting 2- and 1-digit numbers Adding two 2-digit numbers	Estimating answers Checking strategies Solving problems			
		Finding and making number bonds Finding addition facts	Subtracting 2-digit numbers				



<p>Using a ten frame</p> <p>The part whole model to 10 (Pre-requisite – count on and back to find an answer and add and sub single digit number)</p> <p>Adding by counting on</p> <p>Taking away by counting back</p>	<p>Solving addition one step word problems</p> <p>Reading, writing and interpreting mathematical statements + - =</p> <p>Subtraction within 10</p> <p>Subtraction - How many left?</p> <p>Subtraction - Breaking apart</p> <p>Related facts - addition and subtraction</p> <p>Subtraction - counting back</p> <p>Subtraction - Finding the difference</p> <p>Solving addition and subtraction one step word problems</p> <p>Comparing - addition and subtraction</p> <p>Reading, writing and interpreting mathematical statements + - =</p>	<p>Adding 3 one-digit numbers</p> <p>Solving word problems – bar model</p>				
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		<p>Addition within 20</p> <p>Adding by counting on</p> <p>Adding ones</p> <p>Finding number bonds</p> <p>Adding by making ten</p> <p>Solving addition one step word problems</p> <p>Subtraction within 20</p> <p>Subtracting ones</p> <p>Subtracting tens and ones</p> <p>Subtraction – crossing ten</p> <p>Related addition and subtraction facts to 20</p> <p>Comparing addition and subtraction</p> <p>Solving one step subtraction / addition word and picture problems</p>					
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Mathematics Curriculum Overview



	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number: Multiplication and division	Doubling		Making equal groups	Multiplication equal groups	Multiplying multiples of 10 and 100	Multiples	Multiplying 4-digit and 1-digit numbers
	Halving		Multiplication as equal groups	Multiplying and dividing by 3	Dividing multiples of 10 and 100	Factors	Multiplying 4 digit and 2-digit numbers (long multiplication)
	Sharing		Adding equal groups	3 times-table	Multiplying by 1 and 0	Prime numbers	Dividing 4-digit and 2-digit numbers (remainders / short division)
	Odd and even		Multiplication sentences	Multiplying and dividing by 4	Dividing by 1	Squares and cubes	Common factors
			Using arrays - 2, 5 and 10 times tables	4 times-table	Multiplying and dividing by 6	Inverse operations	Common multiples
			Solving word problems – multiplication	Multiplying and dividing by 8	6 times tables	Multiplying whole numbers by 10, 100, 1000	Prime numbers up to 100
			Division: Making equal groups	8 times-table	Multiplying and dividing by 9	Dividing whole numbers by 10, 100 and 1000	Squares and cubes
			Sharing equal groups	Problem solving – multiplication and division	9 times tables	Multiplying and dividing by multiples of 10,100 and 1000	Order of operations - brackets
			Dividing by 2 - Odd and even	Understanding divisibility	Multiplying and dividing by 7	Multiplying numbers up to 4 digits by 1 digit	Mental calculations (compensating)
			Divide by 5, 10	Related facts - multiplication and division	7 times table	Multiplying 2-digit numbers	Reasoning from known facts
			Bar modelling – grouping	Comparing multiplication and division statements	11 and 12 times tables	Multiplying a 3-digit number by a 2 digit	
			Bar modelling – sharing	Related multiplication and division calculation	Problem solving - additional and multiplication		
			Solving word problems – division		Problem solving – mixed		

Mathematics Curriculum Overview



				<p>Multiplying 2-digit and 1-digit numbers</p> <p>Dividing 2-digit and 1-digit numbers</p> <p>How many ways? (finding all the possibilities – rules)</p> <p>Problem solving</p>	<p>Using written methods to multiply – expanded method/ partitioning</p> <p>Multiplying a 2- and 1-digit number</p> <p>Multiplying a 3- and 1-digit number</p> <p>Problem solving – multiplication</p> <p>Multiplying more than two numbers</p> <p>Problem solving – mixed correspondence problems</p> <p>Dividing a 2- and 1-digit numbers</p> <p>Division with remainders</p> <p>Dividing a 3-digit number by a 1-digit number</p> <p>Problem solving – division</p>	<p>Multiplying a 4-digit number by a 2-digit number</p> <p>Dividing a 4-digit number by a 1-digit number</p> <p>Division with remainders</p> <p>Problem solving – division with remainders</p>	
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Mathematics Curriculum Overview



	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number: Fractions, decimal and percentages			Introducing parts and wholes	Unit and non-unit fractions	Tenths and hundredths	Equivalent fractions	Simplifying fractions
			Making equal parts	Making a whole	Equivalent fractions	Converting improper fractions to mixed numbers	Fractions on a number line
			Recognising and finding a half	Tenths	Simplifying fractions	Converting mixed numbers to improper fractions	Comparing and ordering fractions
			Recognising and finding a quarter	Fractions as number	Fractions greater than 1	Number sequences - fractions	Adding and subtracting fractions
			Unit fractions	Fractions of a set of objects	Adding fractions	Comparing and ordering fractions	Problem solving – adding and subtracting fractions
			Understanding other fractions - $\frac{1}{2}$ and $\frac{2}{4}$ equivalent	Problem solving fractions	Subtracting fractions	Fractions as division	Multiplying a fraction (proper and mixed) by a whole number
			Finding $\frac{3}{4}$	Equivalent fractions	Problem solving – adding and subtracting fraction	Adding and subtracting fractions with the same denominator	Multiplying a fraction by a fraction (simplest form)
			Understanding a whole and parts	Comparing fractions	Calculating fractions of a quantity	Adding and subtracting fractions	Dividing a fraction (proper) by a whole number
			Counting In halves and quarter	Ordering fractions	Problem solving – fractions of a quantity	Problem solving – mixed word problems – fractions	Using the four rules with fractions (correct order of operations)
				Adding fractions	Tenths	Multiplying fractions	Calculating fractions of amounts Using fractions as operators
			Subtracting fractions	Dividing by 10	Calculating fractions of amounts Using fractions as operators	Calculating fractions of an amount	
			Problem solving – adding and subtracting fractions	Hundredths			
			Problem solving – fractions of measure	Dividing by 100			
				Dividing by 10 and 100			
				Making a whole			
				Writing a decimal			

Mathematics Curriculum Overview



					<p>Comparing a decimal</p> <p>Ordering a decimal</p> <p>Rounding a decimal</p> <p>Halves and quarters</p> <p>Problem solving with decimals</p>	<p>Problem solving – mixed word problems</p> <p>Writing decimals</p> <p>Decimals as fractions</p> <p>Understanding thousandths</p> <p>Writing thousands as decimals</p> <p>Ordering and comparing decimals</p> <p>Rounding decimals</p> <p>Understanding percentage</p> <p>Percentage as fractions and decimals</p> <p>Equivalent fractions, decimals and percentages</p> <p>Adding and subtracting decimals</p> <p>Decimal sequences</p> <p>Problem solving decimals</p> <p>Multiplying decimals by 10</p>	<p>Problem solving – fractions of amounts</p> <p>Multiplying by 10, 100 and 1000</p> <p>Dividing by multiples of 10, 100 and 1000</p> <p>Decimals as fractions</p> <p>Fractions as decimals</p> <p>Multiplying and dividing decimals</p> <p>Recalling and using equivalence between simple fractions, decimals and percentages</p> <p>Calculation of percentages</p> <p>Percentage for comparison</p> <p>Finding missing values</p> <p>Converting fractions to percentage</p> <p>Equivalent fractions, decimals and percentage</p>
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Mathematics Curriculum Overview



						<p>Multiplying decimals by 10, 100 and 1000</p> <p>Dividing decimals by 10</p> <p>Dividing decimals by 10, 100 and 1000</p>	Mixed problem solving
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	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number: Addition and subtraction. Problem solving and efficiency			<p>Problem solving with money</p> <p>Using numbers facts and equivalence</p> <p>Using a 100 square</p> <p>Problem solving – part whole</p> <p>Missing numbers</p> <p>Mental addition and subtraction</p> <p>Efficient subtraction</p> <p>Solving problems – all four operations</p>				<p>Problem solving – negative numbers</p> <p>Addition and subtraction (using estimations to check)</p> <p>All four operations</p> <p>Problem solving - fractions</p>



	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Geometry: Properties of shape	Awareness of 2D and 3D shapes	2D and 3D shapes	Recognising 2D and 3D shapes	Turns and angles	Identifying angles	Measuring angles in degrees	Measuring with a protractor
	Exploring everyday objects and shapes	Naming 3D shapes	Drawing 2D shapes	Right angles in shapes	Comparing and ordering angles	Measuring with a protractor	Drawing shapes accurately
	Making simple patterns	Naming 2D shapes	Counting sides and vertices of 2D shapes	Comparing angles	Identifying regular and irregular shapes	Drawing lines and angles accurately	Angles in triangles
	Exploring more complex patterns	Making patterns with shapes	Finding lines of symmetry	Drawing accurately	Classifying triangles	Calculating angles on a straight line	Angles in polygons
			Sorting 2D shapes	Types of lines	Classifying and comparing quadrilaterals	Calculating angles around a point	Vertically opposite angles
		Making patterns with 2D shapes	Recognising and describing 2D shapes	Deducing facts about shapes	Calculating lengths and angles in a shape	Equal distance	
		Counting faces, edges and vertices of 3D shapes	Recognising and describing 3D shapes	Line symmetry inside shapes	Recognising and drawing parallel lines	Parts of a circle	
		Sorting 3D shapes	Constructing 3D shapes	Line symmetry outside shapes	Recognising and drawing perpendicular lines	Nets	
		Making patterns with 3D shapes		Completing a symmetric figure	Reasoning with parallel and perpendicular lines		
				Completing asymmetric shapes	Regular and irregular polygons		
					Reasoning about 3D shapes		

Mathematics Curriculum Overview



	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Geometry: Position and direction			Describing movement Describing turns (quarter, half, three quarter, clockwise and anticlockwise) Making patterns with shape		Describing a position Drawing on a grid Reasoning on a grid Moving on a grid Describing movement on a grid	Reflection Reflection and coordinates Translation Translation and coordinates	Plotting coordinates in the first quadrant Plotting coordinates Plotting translations and reflections Reasoning about shapes with coordinates

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement: Time	All about my day – using everyday language to discuss time	Time Using before and after Using a calendar Telling the time to the hour Telling the time to the half hour Writing the time (hours, minutes, seconds)	Telling and writing the time to the nearest hour and half hour and quarters Telling the time to 5 minute Minutes in an hour Finding durations of time Comparing durations of time Finding the start and end time	Months and years Hours in a day Estimating time Telling the time to 5 mins Finding durations Comparing durations Finding start and end times Measuring time in seconds	Units of time Converting time Problem solving – units of time		

Mathematics Curriculum Overview



		Comparing time (slower, faster, earlier, later) Solving word problems – time	Hours in a day				
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	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement: Money			Money Counting coins Counting notes Counting money – coins and notes Showing equal amount of money Comparing equal amounts of money Calculating totals of money Finding change Money – two step word problems	Values of pounds and pence and totals Converting pounds and pence Adding money Subtracting amounts Problem solving	Pounds and pence Pounds, tenths and hundredths Ordering amounts of money Rounding money Using rounding to estimate money Problem solving - pence and pound Problem solving – multiplication and division Solving two step problems Problem solving money		

Mathematics Curriculum Overview



	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement: Perimeter and area					Kilometres Perimeter of a rectangle Perimeter of a rectilinear shape Area – counting squares Area – making shapes Comparing area	Measuring perimeter Calculating perimeter Calculating area Comparing area Estimating area	Shapes with the same area Area and perimeter Area of a parallelogram Area of a triangle Problem solving -- area Problem solving - perimeter Volume of a cuboid

Mathematics Curriculum Overview



	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement: Height and length		Introducing height and length Comparing lengths and heights Using non-standard units Length- using a ruler Solving word problems - length	Measuring in centimetres and metres Comparing lengths Ordering lengths Solving problems -length				

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement: Weight, volume and temperature		Introducing weight and volume Comparing weight Measuring weight Measuring to compare weight Comparing capacity Measuring capacity Measuring to compare capacity	Compare mass in g and kg Comparing volume ml and l Reading and measuring temperature using a thermometer	Measuring capacity Comparing capacity Adding and subtracting - capacity Problem solving - capacity		Volume Comparing volume Estimating volume	



		Solving word problems – weight and capacity					
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Measurement: Mass and capacity	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					Measuring mass Comparing masses Adding and subtracting masses Problem solving – Mass		Volume Comparing volume Estimating volume

Measurement: Converting units	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
							Using metric units (kg/g – km / m / cm / mm) Imperial units of lengths – Feet / yards inches Imperial units of mass – lb / oz Imperial units of capacity – gallon / pints Converting units of time

Mathematics Curriculum Overview



							Timetables Problem solving – measure	
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Measurement: Imperial and metric	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
							Metric measures (length, mass, volume and time / decimals) Converting metric measures Problem solving - metric measures Miles and km Imperial measures (length, mass, volume and time)

Mathematics Curriculum Overview



	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Statistics			Making tally charts Creating pictograms Interpreting pictograms Block diagrams Solving problems – statistics	Pictograms Bar charts Tables	Charts and tables Line graphs Problem solving – graphs	Interpreting tables Two-way tables Interpreting line graphs Drawing line graphs	Finding the mean Introduction to pie charts Reading and interpreting pie charts Fractions and pie charts Percentages and pie charts Interpreting line graphs Constructing line graphs

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Algebra							Finding a rule Using a rule Formulae Solving equations

Mathematics Curriculum Overview



							<p>Expressing missing number problems algebraically</p> <p>Equations with two unknowns</p> <p>Enumerate possibilities of combinations of two variables</p>
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Ratio and proportion	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
							<p>Ratio</p> <p>Scale drawings</p> <p>Scale factors</p> <p>Similar shapes</p> <p>Problem solving - ratio and proportion</p>